

THREE YEAR PLAN 1991-1993

RESEARCH

PRESENT POSITION

- Analytical support in all areas of cigarette manufacture has been intensified. In conjunction with Packaging Engineering EEC and PM suppliers, an ongoing program is directed at finding further printing systems (offset, water-based) which are subjectively acceptable.
- Blend components and ingredients used by PMG are regularly screened to ensure compliance with the German Food Law.
- A program with PME Process Development was aimed at optimizing oriental tobacco treatment in primary processing. Treated tobacco has been favorably evaluated by Panel A. The program has been transferred to Process Development for industrial trials.
- In-house research programs on ETS in offices are continuing with extended analytical coverage. Assessment of the methods through collaborative studies is pursued. Support and control of independent laboratories subcontracted to work on ETS is continuing in co-operation with S&T.
- The program to investigate the influence of various cigarette wrappers including double wrappers on sidestream smoke yields has been completed. Sidestream determinations as support to Product Development PME and PM+US are continuing to be performed.
- A study to investigate whether ozone can be measured with commercially available instrumentation in the presence of sidestream smoke and ETS has been completed.
- The routine measurement of sidestream smoke yields in nicotine, particulate matter and carbon monoxide by using a four-channel single-cigarette apparatus has been extended to the determination of sidestream smoke visibility. The monitoring of total sidestream smoke is under development.

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- EEC, EEMA and competitive brands are continuing to be screened for selected filler and smoke components.
- InfraAnalyzer methods to determine main components in base and application flavors are being implemented in PMG Munich and Berlin factories.
- Improved analytical methodology for determining critical pesticides on tobacco (e.g., MH-30, DTC) has been developed and is being implemented.
Monitoring of pesticide residue levels in leaf tobacco and in finished products is continuing as to be in compliance with the specific laws of the EEC and EEMA regions.
- An integrated biocontrol system to prevent microbiological activity during tobacco processing and storage was developed.
- The identification of tobacco-identical inhibitory compounds isolated from Oriental tobacco is continuing.
- A program to investigate the influence of processing conditions on tobacco microbiology and subjective quality of the final product was initiated.
- Microbiological support to PM affiliates and licensees to control shelf life in tobacco storage and processing is continuing.

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